

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/6056531A

Source: TEUSO

Date Processed by STIC: 6/21/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

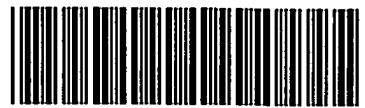
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/656,531A

DATE: 06/21/2004  
TIME: 16:17:40

Input Set : A:\CTCH-P01-016.TXT  
Output Set: N:\CRF4\06212004\J656531A.raw

```

4 <110> APPLICANT: Baltimore, David
5 Porteus, Matthew
7 <120> TITLE OF INVENTION: USE OF CHIMERIC NUCLEASES TO STIMULATE
8 GENE TARGETING
10 <130> FILE REFERENCE: CTCH-P01-016
12 <140> CURRENT APPLICATION NUMBER: 10/656,531A
13 <141> CURRENT FILING DATE: 2003-09-05
15 <150> PRIOR APPLICATION NUMBER: 60/408,454
16 <151> PRIOR FILING DATE: 2002-09-05
18 <150> PRIOR APPLICATION NUMBER: 60/484,788
19 <151> PRIOR FILING DATE: 2003-07-03
21 <150> PRIOR APPLICATION NUMBER: 60/419,341
22 <151> PRIOR FILING DATE: 2002-10-17
24 <160> NUMBER OF SEQ ID NOS: 52
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 18
30 <212> TYPE: DNA
31 <213> ORGANISM: Unknown
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Oligonucleotide
36 <400> SEQUENCE: 1
37 tagggataac aggtaat
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 9
41 <212> TYPE: DNA
42 <213> ORGANISM: Unknown
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Oligonucleotide
47 <400> SEQUENCE: 2
48 gggaaagaa
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 9
52 <212> TYPE: DNA
53 <213> ORGANISM: Unknown
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Oligonucleotide
58 <400> SEQUENCE: 3
59 gcgtggtcg
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 9
63 <212> TYPE: DNA
64 <213> ORGANISM: Unknown

```

Does Not Comply  
Corrected Diskette Needed  
(pg. 4-5)

18

9

9

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PATENT APPLICATION: US/10/656,531A

DATE: 06/21/2004

TIME: 16:17:40

Input Set : A:\CTCH-P01-016.TXT

Output Set: N:\CRF4\06212004\J656531A.raw

66 <220> FEATURE:  
 67 <223> OTHER INFORMATION: Oligonucleotide  
 69 <400> SEQUENCE: 4  
 70 gatgttgc 9  
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 74 <212> TYPE: DNA  
 75 <213> ORGANISM: Unknown  
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 82 <223> OTHER INFORMATION: n = A,T,C or G  
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 W--> 85 gatgnnnnnn ttgct 15  
 87 <210> SEQ ID NO: 6  
 88 <211> LENGTH: 9  
 89 <212> TYPE: DNA  
 90 <213> ORGANISM: Unknown  
 92 <220> FEATURE:  
 93 <223> OTHER INFORMATION: Oligonucleotide  
 W--> 95 <221> NAME/KEY: misc\_feature  
 96 <222> LOCATION: 2,3,5,6,8,9  
 97 <223> OTHER INFORMATION: n = A,T,C or G  
 W--> 99 <400> 6  
 W--> 100 gnngnngnn 9  
 102 <210> SEQ ID NO: 7  
 103 <211> LENGTH: 24  
 104 <212> TYPE: DNA  
 105 <213> ORGANISM: Homo sapiens  
 107 <220> FEATURE:  
 108 <221> NAME/KEY: misc\_feature  
 109 <222> LOCATION: 1,2,4,5,7,8  
 110 <223> OTHER INFORMATION: n = A,T,C or G  
 112 <221> NAME/KEY: misc\_feature  
 113 <222> LOCATION: (10)...(15)  
 114 <223> OTHER INFORMATION: n= A,T,C or G  
 W--> 116 <221> misc\_feature  
 117 <222> LOCATION: 17,18,20,21,23,24  
 118 <223> OTHER INFORMATION: n=A,T,C or G  
 W--> 120 <400> 7  
 W--> 121 nncnnccnn nnnnngnngn ngnn 24  
 123 <210> SEQ ID NO: 8  
 124 <211> LENGTH: 9  
 125 <212> TYPE: DNA  
 126 <213> ORGANISM: Unknown  
 128 <220> FEATURE:  
 129 <223> OTHER INFORMATION: Oligonucleotide  
 131 <400> SEQUENCE: 8

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/656,531A

DATE: 06/21/2004

TIME: 16:17:40

Input Set : A:\CTCH-P01-016.TXT

Output Set: N:\CRF4\06212004\J656531A.raw

132 ggggaagaa 9  
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 137 <213> ORGANISM: Unknown  
 139 <220> FEATURE:  
 140 <223> OTHER INFORMATION: Oligonucleotide  
 142 <400> SEQUENCE: 9  
 143 gcgtggcg 8  
 145 <210> SEQ ID NO: 10  
 146 <211> LENGTH: 24  
 147 <212> TYPE: DNA  
 148 <213> ORGANISM: Unknown  
 150 <220> FEATURE:  
 151 <223> OTHER INFORMATION: Oligonucleotide  
 153 <400> SEQUENCE: 10  
 154 accatcttct tcaaggacga cggc 24  
 156 <210> SEQ ID NO: 11  
 157 <211> LENGTH: 9  
 158 <212> TYPE: DNA  
 159 <213> ORGANISM: Unknown  
 161 <220> FEATURE:  
 162 <223> OTHER INFORMATION: Oligonucleotide  
 164 <400> SEQUENCE: 11  
 165 gaagatgg 9  
 167 <210> SEQ ID NO: 12  
 168 <211> LENGTH: 9  
 169 <212> TYPE: DNA  
 170 <213> ORGANISM: Unknown  
 172 <220> FEATURE:  
 173 <223> OTHER INFORMATION: Oligonucleotide  
 175 <400> SEQUENCE: 12  
 176 gacgacggc 9  
 178 <210> SEQ ID NO: 13  
 179 <211> LENGTH: 24  
 180 <212> TYPE: DNA  
 181 <213> ORGANISM: Unknown  
 183 <220> FEATURE:  
 184 <223> OTHER INFORMATION: Oligonucleotide  
 186 <400> SEQUENCE: 13  
 187 ggcccccacc atcgcgtcgc agcc 24  
 189 <210> SEQ ID NO: 14  
 190 <211> LENGTH: 9  
 191 <212> TYPE: DNA  
 192 <213> ORGANISM: Unknown  
 194 <220> FEATURE:  
 195 <223> OTHER INFORMATION: Oligonucleotide  
 197 <400> SEQUENCE: 14  
 198 gtgggcgccc 9

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/656,531A

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Input Set : A:\CTCH-P01-016.TXT

Output Set: N:\CRF4\06212004\J656531A.raw

200 <210> SEQ ID NO: 15  
 201 <211> LENGTH: 9  
 202 <212> TYPE: DNA  
 203 <213> ORGANISM: Unknown  
 205 <220> FEATURE:  
 206 <223> OTHER INFORMATION: Oligonucleotide  
 208 <400> SEQUENCE: 15  
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 211 <210> SEQ ID NO: 16  
 212 <211> LENGTH: 168  
 213 <212> TYPE: DNA  
 214 <213> ORGANISM: Unknown  
 216 <220> FEATURE:  
 217 <223> OTHER INFORMATION: Oligonucleotide  
 219 <400> SEQUENCE: 16  
 220 actagcaacc tcaaacagac accatggtgc atctgactcc tgaggagaag tctgccgtta 60  
 221 ctgccctgtg gggcaaggtg aacgtgatcg ttggagtttgc tctgtggtac cacgttagact 120  
 222 gaggactctt cttcagacgg caatgacggg acaccccggtt ccacttgc 168  
 224 <210> SEQ ID NO: 17  
 225 <211> LENGTH: 9  
 226 <212> TYPE: DNA  
 227 <213> ORGANISM: Unknown  
 229 <220> FEATURE:  
 230 <223> OTHER INFORMATION: Oligonucleotide  
 232 <400> SEQUENCE: 17  
 233 gaggttgct  
 235 <210> SEQ ID NO: 18  
 236 <211> LENGTH: 7  
 237 <212> TYPE: PRT  
 238 <213> ORGANISM: Unknown  
 240 <220> FEATURE:  
 241 <223> OTHER INFORMATION: Peptide  
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 244 Gln Ser Ser Asp Leu Thr Arg  
 245 1 5  
 248 <210> SEQ ID NO: 19  
 249 <211> LENGTH: 7  
 250 <212> TYPE: PRT  
 251 <213> ORGANISM: Unknown  
 253 <220> FEATURE:  
 254 <223> OTHER INFORMATION: Peptide  
 256 <400> SEQUENCE: 19  
 257 Thr Ser Gly Glu Leu Val Arg  
 258 1 5  
 261 <210> SEQ ID NO: 20  
 262 <211> LENGTH: 7  
 263 <212> TYPE: PRT  
 264 <213> ORGANISM: Unknown  
 266 <220> FEATURE:

What is the source? 9

INVALID  
RESPONSE

SAME ERROR

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/656,531A

DATE: 06/21/2004

TIME: 16:17:40

Input Set : A:\CTCH-P01-016.TXT

Output Set: N:\CRF4\06212004\J656531A.raw

267 &lt;223&gt; OTHER INFORMATION: Peptide

269 &lt;400&gt; SEQUENCE: 20

270 Thr Ser Gly Ala Leu Thr Arg

271 1 5

274 &lt;210&gt; SEQ ID NO: 21

275 &lt;211&gt; LENGTH: 7

276 &lt;212&gt; TYPE: PRT

277 &lt;213&gt; ORGANISM: Unknown

279 &lt;220&gt; FEATURE:

280 &lt;223&gt; OTHER INFORMATION: Peptide

282 &lt;400&gt; SEQUENCE: 21

283 Thr Ser Gly Ser Leu Thr Arg

284 1 5

287 &lt;210&gt; SEQ ID NO: 22

288 &lt;211&gt; LENGTH: 7

289 &lt;212&gt; TYPE: PRT

290 &lt;213&gt; ORGANISM: Unknown

292 &lt;220&gt; FEATURE:

293 &lt;223&gt; OTHER INFORMATION: Peptide

295 &lt;400&gt; SEQUENCE: 22

296 Arg Ser Asp Asn Leu Thr Arg

297 1 5

300 &lt;210&gt; SEQ ID NO: 23

301 &lt;211&gt; LENGTH: 7

302 &lt;212&gt; TYPE: PRT

303 &lt;213&gt; ORGANISM: Unknown

305 &lt;220&gt; FEATURE:

306 &lt;223&gt; OTHER INFORMATION: Peptide

308 &lt;400&gt; SEQUENCE: 23

309 Arg Ser Asp Asn Leu Val Arg

310 1 5

313 &lt;210&gt; SEQ ID NO: 24

314 &lt;211&gt; LENGTH: 48

315 &lt;212&gt; TYPE: DNA

316 &lt;213&gt; ORGANISM: Unknown

318 &lt;220&gt; FEATURE:

319 &lt;223&gt; OTHER INFORMATION: Oligonucleotide

321 &lt;400&gt; SEQUENCE: 24

322 agcaacctct ctagagcgtg ggcgtcggtg gagagatctc gcacccgc

48

324 &lt;210&gt; SEQ ID NO: 25

325 &lt;211&gt; LENGTH: 9

326 &lt;212&gt; TYPE: DNA

327 &lt;213&gt; ORGANISM: Unknown

329 &lt;220&gt; FEATURE:

330 &lt;223&gt; OTHER INFORMATION: Oligonucleotide

332 &lt;400&gt; SEQUENCE: 25

333 ggcaagggtg

9

335 &lt;210&gt; SEQ ID NO: 26

336 &lt;211&gt; LENGTH: 7

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/656,531A

DATE: 06/21/2004  
TIME: 16:17:41

Input Set : A:\CTCH-P01-016.TXT  
Output Set: N:\CRF4\06212004\J656531A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 5,6,7,8,9,10

Seq#:6; N Pos. 2,3,5,6,8,9

Seq#:7; N Pos. 1,2,4,5,7,8,10,11,12,13,14,15,16,17,18,20,21,23,24

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/656,531A

DATE: 06/21/2004

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Input Set : A:\CTCH-P01-016.TXT

Output Set: N:\CRF4\06212004\J656531A.raw

L:80 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:84 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:95 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:99 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6  
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:116 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7  
L:120 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7  
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0